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B.Sc. (Hons) Bio-Informatics Sixth Semester BIN-6002: Introduction to Proteins and Proteomics

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:
 - a) Distinguish between polar and non polar covalent bonds
 - b) What are bonds in proteins?
 - c) Differentiate between atom and bonds.
 - d) What is LC/MS?
 - e) What are glycosylation of proteins?
 - f) What is main difficulties Edman degradation?
 - g) How sedimentation analysis is useful for protein analysis.
 - h) How we benefits with the data for Mass spectroscopy in disease diagnosis. $(8x1\frac{1}{2})$

UNIT – I

II.	a) Discuss the methods of protein solublisation.		
	b) How proteome understanding is important in understanding of human.	(2x6)	
III.	a) Discuss the gel filtration methods & its applications		
	b) Discuss the different protein array and it applications.	(2x6)	
IV.	a) Diagrammatically explain MS/MS?		
	b) Discuss Edman degradation method.	(2x6)	

<u>UNIT – II</u>

V.	a) What is Phosphoraylation & its types?	
	b) Distinguish Protein - protein interaction and it significance.	(2x6)

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VI. a) Discuss method for two hybrid system & its application.b) Write a note on GST pull down and its significance.

(2x6)

VII. a) Write a note on GRID and DIP.

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b) Discuss the role of String and its application.

(2x6)

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